International Symposium on Nicotine:
The Effects of Nicotine on Biological Systems II

(Satelite symposium of the XIIth International Congress of Pharmacology)

Hotel Le Chantecler
Montreal, Canada

July 21-24, 1994

Organizing Committee:

Dr. P.B.S. Clarke, Canada
Dr. M. Quik, Canada
Dr. F.X. Adlkofer, Germany
Dr. H.C. Thurau, Germany

Conference Coordinator:

Ms. A. Roussell, Canada

'prog3.doc (July 23, 1993)

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Preliminary Scientific Programme

Thursday, July 21 - PM

14:00 - 18:00	Registration
18:00 - 19:00	**SESSION 1**
18:00 - 18:10	**Introductory Remarks:** H.C. Thurau, Germany
18:10 - 18:35	Are nicotine metabolites biologically active? N. Benowitz, USA
18:35 - 19:00	Nicotine's possible involvement in smoking-related diseases F. X. Adlkofer, Germany
20:00	**Barbecue on terrace**

Friday, July 22 - AM

08:30 - 12:00	**SESSION 2** (20 min talk plus 10 min discussion) **Structure and regulation of nicotinic receptors** Chairpersons: J. Patrick, USA and D. Bertrand, Switzerland
08:30 - 09:00	Molecular biological approaches to identifying nAChR J. Patrick, USA
09:00 - 09:30	Antibodies as tools to study nAChR structure J.M. Lindstrom, USA
09:30 - 10:00	Biochemical characterization of nAChRs F. Clementi, Italy
10:00 - 10:30	**BREAK/POSTERS (refreshments will be served)**
10:30 - 11:00	Determinants regulating nAChR function D. Bertrand, Switzerland
11:00 - 11:30	Mechanisms of allosteric modulation J.P. Changeux, France
11:30 - 12:00	Intracellular regulators of nAChR function D. Berg, USA
12:00 - 13:30	**LUNCH (buffet lunch will be served)**

Friday, July 22 - PM

13:30 - 15:30	**SESSION 3** (15 min talk plus 5 min discussion) **Tolerance and Receptor Desensitization** Chairpersons: A.C. Collins, USA and K.J. Kellar, USA
13:30 - 13:50	Does receptor desensitization regulate nicotinic receptor density ? S. Wonnacott, UK
13:50 - 14:10	Possible genetic differences in receptor desensitization M.J. Marks, USA

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Friday, July 22 - PM (cont'd)

14:10 - 14:30	Tolerance to nicotine's neuroendocrine effects K.J. Kellar, USA
14:30 - 14:50	Receptor desensitization - modelling of radioligand binding P.M. Lippiello, USA
15:00 - 15:30	**BREAK/POSTERS (refreshments will be served)**
15:30 - 16:30	**Oral presentations of selected posters (5 minutes per poster)**
19:00 - 22:00	**POSTER SESSION (wine, cheese, and more...)**

Saturday, July 23 - AM

08:30 - 12:00	**SESSION 4** (15 min talk plus 5 min discussion) **Trophic, neuronal, and endocrine effects of nicotine** Chairpersons: M.J. Rand, Australia and K. Fuxe, Sweden
08:30 - 08:50	Effects of nicotine in development T.E. Slotkin, USA
08:50 - 09:10	Nicotinic receptors and synaptogenesis L. Role, USA
09:10 - 09:30	Preterminal nAChRs C. Mulle, France
09:30 - 09:50	Factors that control the expression of nicotinic receptor subunits on peripheral neurons E. Cooper, Canada
09:50 - 10:20	**BREAK/POSTERS (refreshments will be served)**
10:20 - 10:40	Growth-related role for the alpha-bungarotoxin site in neuronal and lung tumour cell lines M. Quik, Canada
10:40 - 11:00	Nicotine as a growth factor H. Schuller, USA
11:00 - 11:20	Nicotine and opioid peptides V. Höllt, Germany
11:20 - 11:40	Nicotine potently inhibits prostaglandin synthesis M. Goerig, Germany
11:40 - 12:00	Prolactin release and nicotine B.M. Sharp, USA
12:00 - 13:30	**LUNCH (buffet lunch will be served)**

Saturday, July 23 - PM

13:30 - 17:00	**SESSION 5** (10 min talk plus 5 min discussion) **Nicotine and Smoking: Current Controversies** Chairpersons: P. Froggatt, UK and K. Bättig, Switzerland
13:30 - 13:45	Nicotine and CNS arousal I. Hindmarch, Guildford, UK

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Saturday, July 23 - PM (cont'd)

13:45 - 14:00	The importance of behavioural mechanisms in nicotine dependence I.P. Stolerman, UK
14:00 - 14:15	Nicotine's reinforcing effects are mediated (at least partially) via dopamine activation W.A. Corrigall, Canada
14:15 - 14:30	Tolerance occurs to nicotine's dopamine-activating effects D.J.K. Balfour, UK
14:30 - 14:45	What would smoking be without nAChR activation ? P.B.S. Clarke, Canada
14:45 - 15:15	**BREAK/POSTERS (refreshments will be served)**
15:15 - 15:30	Nicotine intake is regulated in humans M.A.H. Russell, UK
15:30 - 15:45	There's more to nicotine than smoking J. Rose, USA
15:45 - 16:00	Nicotine is (only !) a psychological tool D.M. Warburton, UK
16:00 - 16:15	Nicotine is addictive J. Henningfield, USA
16:15 - 16:30	Nicotine is not addictive J.H. Robinson, USA
16:30 - 16:45	Nicotine *is* addictive R. West, UK
16:45 - 17:00	Nicotine and smoking: let's not forget the genetic component A.C. Collins, USA
20:00	**Banquet (a night to remember!)**

Sunday, July 24 - AM

09:00 - 12:30	**SESSION 6** (15 min talk plus 5 min discussion) **Nicotine and human diseases** Chairpersons: H.C. Thurau, Germany and R. Quirion, Canada
09:00 - 09:20	Nicotine and ulceritive colitis G.F. Cope, UK
09:20 - 09:40	Beneficial effects of nicotine in Tourette's syndrome P. Sandberg, USA
09:40 - 10:00	Nicotine and neuropsychiatric disorders J.R. Hughes, USA
10:00 - 10:20	Epidemiology of smoking and Parkinson's disease J.A. Baron, USA
10:20 - 10:40	Neuroprotective effects of nicotine in a Parkinsonian model A.M. Janson, Sweden
10:40 - 11:00	**BREAK/POSTERS (refreshments will be served)**
11:00 - 11:20	Nicotine as a cognitive enhancer in animals E.D. Levin, USA
11:20 - 11:40	Epidemiology of smoking and Alzheimer's disease A. Hofman, Holland

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Friday Morning 9:00 AM NOTES

SESSION I

Identification of Edited RNA

Jonatha Gott, session leader

Larry Simpson
University of California at Los Angeles
Guided and Misguided mRNA Editing in Kinetoplastids

Michael W. Gray
Dalhousie University
Transfer RNA Editing in Mitochondria

Jonatha M. Gott
Case Western Reserve University
Complex Patterns of Physarum RNA Editing

Svante Pääbo
University of Munich
Altered tRNA Function Through Editing

Saraswati Sukumar
The Salk Institute for Biological Studies
Editing of the Wilm's Tumor Susceptibility WT1 mRNA

Friday Afternoon 4:00 PM

WORKSHOP

Larry Simpson, chair

RNAs Which are Edited: Biological or Biomedical Significance

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ACKNOWLEDGEMENTS

Organizing Committee

Harold C. Smith
University of Rochester

Stephen L. Hajduk
University of Alabama at Birmingham

David A. Shub*
Center for Molecular Genetics,
University at Albany – SUNY;
School of Public Health – SUNYA &
NYSDOH

Conference Staff

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Center for Molecular Genetics,
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Wadsworth Center for Laboratories &
Research, NYS Department of Health

* Nucleic Acid Technologies Foundation

Special Recognition

Staff of the Rensselaerville Institute and
Conference Center, Rensselaerville, NY

Poster art image manipulation:
Jenny M.L. Smith, University of Rochester
School of Medicine & Dentistry.

Scientific Sessions

Thursday Evening 8:00 PM

Welcome from
Nucleic Acid Technologies Foundation
David A. Shub
Center for Molecular Genetics,
University at Albany – SUNY

Meeting Introduction
Harold C. Smith
University of Rochester Medical Center

Introduction of Keynote Speaker
Stephen L. Hajduk
University of Alabama at Birmingham

Keynote Address

Nancy Maizels
Yale University School of Medicine
Phylogeny from Function:
Tracing the History of tRNA from the
RNA World to Modern Times

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Sunday, July 24 - AM (cont'd)

11:40 - 12:00	Beneficial effects of nicotine in Alzheimer's disease J. Gray, UK
12:00 - 12:20	Beneficial effects of nicotine in Alzheimer's disease P. Newhouse, USA
12:20 - 12:35	Closing remarks **The future of nicotine-containing products:** **Sir Peter Froggatt, UK**

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List of Invited Speakers

Adlkofer, Dr. F.X.	Munich, Germany	Confirmed
Balfour, Dr. D.J.K.	Dundy, Scotland, UK	Confirmed
Baron, Dr. J.A.	Hanover, New Hampshire,USA	Tentative
Bättig, Dr. K.	Zurick, Switzerland	Tentative
Benowitz, Dr. N.	San Francisco, California, USA	Tentative
Berg, Dr. D.	San Diego, California , USA	Confirmed
Bertrand, Dr. D.	Geneva, Switzerland	Confirmed
Changeux, Dr. J.P.	Paris, France	Confirmed
Clarke, Dr. P.B.S.	Montreal, Canada	Confirmed
Clementi, Dr. F.	Milan, Italy	Confirmed
Collins, Dr. A.C.	Boulder, Colorado, USA	Confirmed
Cooper, Dr. E.	Montreal, Canada	Tentative
Cope, Dr. G.F.	Birmingham, UK	Tentative
Corrigall, Dr. W.A.	Toronto, Canada	Tentative
Froggatt, Sir. P.	Belfast, N. Ireland	Tentative
Fuxe, Dr. K.	Stockhom, Sweden	Tentative
Goerig, Dr. M.	Nürnberg, Germany	Tentative
Gray, Dr. J.	London, UK	Tentative
Henningfield, Dr. J.	Baltimore, Maryland, USA	Tentative
Hindmarch, Dr. I.	Guildford, UK	Tentative
Höllt, Dr. V.	Munich, Germany	Tentative
Hofman, Dr. A.	Rotterdam,Holland	Tentative
Hughes, Dr. J.R.	Burlington, Vermont, USA	Tentative
Janson, Dr. A.M.	Stockholm, Sweden	Tentative
Kellar, Dr. K.	Washington, DC, USA	Tentative
Levin, Dr. E.D.	Durham, North Carolina, USA	Tentative
Lindstrom, Dr. J.M.	Philadelphia, Pennsylvania, USA	Confirmed
Lippiello, Dr. P.M.	Winston-Salem, North Carolina, USA	Tentative
Mulle, Dr. C.	Paris, France	Tentative
Newhouse, Dr. P.	Burlington, Vermont, USA	Tentative
Patrick, Dr. J.	Houston, Texas, USA	Confirmed
Quik, Dr. M.	Montreal, Canada	Confirmed
Quirion, Dr. R.	Montreal, Canada	Tentative
Rand, Dr. M.J.	Melbourne, Australia	Tentative
Robinson, Dr. J.H.	Winston-Salem, North Carolina, USA	Tentative
Role, Dr. L.	New York, New York, USA	Confirmed
Rose, Dr. J.	Dartmouth, North Carolina, USA	Tentative

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Russell, Dr. M.A.H.	London, UK	Tentative
Sanberg, Dr. P.	Tampa, Florida, USA	Tentative
Schuller, Dr. H.	Knoxville, Tennessee, USA	Tentative
Sharp, Dr. B.M.	Minneapolis, Minnesota, USA	Tentative
Slotkin, Dr. T.E.	Durham, North Carolina, USA	Tentative
Stolerman, Dr. I.P.	London, UK	Tentative
Thurau, Dr. H.C.	Munich, Germany	Confirmed
Warburton, Dr. D.M.	Reading, UK	Tentative
West, Dr. R.	London, UK	Tentative
Wonnacott, Dr. S.	Bath, UK	Confirmed

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International Advisory Committee

Balfour, David	UK
Bättig, Karl*	Switzerland
Benowitz, Neil	USA
Berg, Darwin	USA
Bertrand, Daniel	Switzerland
Changeux, Jean-Pierre	France
Clementi, Francesco	Italy
Collins, Allan	USA
Froggatt, Sir Peter*	UK
Fuxe, Kjell	Sweden
Lunt, George	UK
Patrick, Jim	USA
Rand, Michael	Australia
Role, Lorna	USA
Russell, Michael	UK
Steriade, Mircea	Canada
Stolerman, Ian	UK

* Awaiting confirmation

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